

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>NIS-1059-PCT</b>	<b>FOR FURTHER ACTION</b> <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. <b>PCT/JP2004/003774</b>	International filing date ( <i>day/month/year</i> ) <b>19/03/2004</b>	(Earliest) Priority Date ( <i>day/month/year</i> ) <b>20/03/2003</b>
Applicant  <b>NISSAN MOTOR CO., LTD.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☒ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/003774

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C04B35/488 H01M8/12

\* According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C04B H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, INSPEC, COMPENDEX

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BADWAL S P S ET AL: "Scandia-zirconia electrolytes for intermediate temperature solid oxide fuel cell operation" SOLID STATE IONICS, NORTH HOLLAND PUB. COMPANY. AMSTERDAM, NL, vol. 136-137, 2 November 2000 (2000-11-02), pages 91-99, XP004225912 ISSN: 0167-2738 whole document, in particular "Results and Discussion" and "Conclusions" --- -/--	12

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\* & \* document member of the same patent family

Date of the actual completion of the international search

8 June 2004

Date of mailing of the international search report

29/06/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Munro, B

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/003774

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
*X	<p>PATENT ABSTRACTS OF JAPAN vol. 1995, no. 06, 31 July 1995 (1995-07-31) -&amp; JP 07 073891 A (TOHO GAS CO LTD), 17 March 1995 (1995-03-17) abstract figure 2</p> <p>----</p>	12
X	<p>DATABASE WPI Section Ch, Week 198141 Derwent Publications Ltd., London, GB; Class E36, AN 1981-74991D XP002283581 -&amp; JP 56 109871 A (TOYOTA JIDOSHA KK), 31 August 1981 (1981-08-31) abstract figures; table 3</p> <p>----</p>	12
X	<p>US 4 205 051 A (SUZUKI YUTAKA ET AL) 27 May 1980 (1980-05-27) reference example 1</p> <p>----</p>	12
A	<p>DATABASE HCAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; TAKEUCHI, TOMONARI ET AL: "Improvement of mechanical strength of 8 mol% yttria-stabilized zirconia ceramics by spark-plasma sintering" retrieved from STN Database accession no. 2002:316802 XP002283582 abstract &amp; JOURNAL OF THE ELECTROCHEMICAL SOCIETY , 149(4), A455-A461 CODEN: JESOAN; ISSN: 0013-4651, 2002,</p> <p>-----</p>	1-11

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/003774

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 07073891	A	17-03-1995	NONE	
JP 56109871	A	31-08-1981	NONE	
US 4205051	A	27-05-1980	JP 1201659 C	25-04-1984
			JP 54057506 A	09-05-1979
			JP 58033190 B	18-07-1983
			DE 2837593 A1	19-04-1979